NAMAN YESHWANTH KUMAR

https://www.linkedin.com/in/namany | https://github.com/naman-ranka | nyeshwan@asu.edu | (623) 249-1265

EDUCATION

Master of Science   **Expected: May 2026**
Arizona State University - Computer Eng (GPA 3.8/4.0)   **Tempe, AZ**
- Relevant course work: Artificial Intelligence, Foundations of Algorithms, Reinforcement Learning in Robotics, Perception in Robotics, Advanced Computer Architecture, Hardware Co-design, SoC Design, VLSI

Nanodegree - Self-Driving Car Engineer   **February 2023**
Udacity
- Key Areas: Machine Learning, Sensor Fusion, Computer Vision, Path Planning, and Control, with hands-on projects in object detection, trajectory tracking, and autonomous vehicle motion

Bachelor of Engineering   **June 2022**
BMS College of Engineering - Electrical and Electronics Eng   **Bengaluru, India**

TECHNICAL SKILLS

AI & Machine Learning: Artificial Intelligence | Machine Learning | TensorFlow | PyTorch | Computer Vision | Data Analytics | Gen AI
Programming & Automation: Python | SQL | C++ | JavaScript | Shell Script | IT Automation | Docker
Infrastructure & Tools: Cloud Platforms | MATLAB | Simulink | Git | Linux | AWS | Problem Solving
Leadership & Communication: Team Leadership | Project Management | Technical Communication | Organizational Skills | Mentoring

WORK EXPERIENCE

Software Developer   **October 2022 - April 2024**
NCR GOLD   **Bengaluru, India**
- Designed and deployed a custom ordering platform (Django) with automated workflows to streamline inventory and billing for a wholesale jewelry business; processed 10,000+ orders to improve efficiency and reduce human errors.
- Containerized applications using Docker and integrated AWS cloud deployment with IT automation, providing scalable performance and seamless updates for business operations.

Research Intern   **October 2021 - August 2022**
Indian Institute of Science   **Bengaluru, India**
- Led the Propulsion Circuit Team and demonstrated leadership ability, optimizing a 1.5kW axial flux BLDC motor with Ansys Maxwell; boosted efficiency and responsiveness by upgrading material and coil designs and implementing a new FOC system.
- Conducted advanced research on speed control algorithms and battery management systems for eVTOL aircraft leveraging Simulink and problem-solving skills, contributing to notable improvements in efficiency and reliability of aircraft propulsion systems.

PROJECT EXPERIENCE

Trezzit - Full Stack Bill Splitting Application   **February 2025 - Present**
- Engineered Trezzit, a full-stack expense management application that solves the dual challenges of intuitive item-wise bill splitting and integrated personal finance tracking using AI-powered categorization.
- Managed the complete project lifecycle, acquiring and supporting an initial beta community of 120+ active users from the ASU student body.
- Currently leading the next phase of growth, focused on scaling the user base to 1,000 members on campus by leveraging iterative development and community feedback. Tech Stack: Django | React | Google Generative AI (Gemini) | Material-UI | Docker

Intel Automated Self-Checkout (Open Source Contributor)   **January 2025 - February 2025**
- Developed a framework in Python to publish and analyze LiDAR sensor data for autonomous checkout systems; successfully merged contributions to the main branch after comprehensive code review.
- Leveraged Docker and CI/CD pipelines, collaborating with a distributed team to enhance sensor fusion accuracy.

Raspberry Pi Self-Driving Car   **February 2022 - July 2022**
- Developed an autonomous vehicle using Raspberry Pi and Arduino, featuring lane detection, traffic sign recognition, and seamless integration via the I2C communication protocol.
- Streamlined data collection and neural network training with a Bluetooth joystick mode in a collaborative team effort; project received the Best Project Award in the EEE Department among approximately 40 submissions.

AWARDS & HONORS

- Won the 'Best Use of AI' award at Strategy X DevHacks'25 at ASU for developing AdaptED AI, a platform leveraging Google's Gemini AI to generate personalized learning paths and resources for students.
- Secured second place in the Hack SoDA 2024 at ASU with a team of four, developing PassGen, a secure and offline Chrome Extension for generating unique passwords, during a 24-hour hackathon sponsored by Amazon.
- Ranked among the Top Ten teams in the e-Yantra national-level robotics competition organized by IIT Bombay, for designing and developing a self-balancing dairy bike on CoppeliaSim, February 2022.